ABSTRACT

A ball valve operable as an engine brake to resist high rpm operation of the engine on which it is installed. The ball valve has a noncontact seal and can include an aperture through a seal face to permit bypass of sufficient exhaust for operation of the engine at idle while the brake is engaged. If present, the aperture can be tuned, or sized, to provide a desired back pressure matched to a specific engine.

D:\PATENT~1\BCT-CL~1\B31HIL~1\156-APP\156-APP.WPD 7/3/03

5